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Century

F A N S





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Century F A N S

ALTERNATING AND DIRECT CURRENT
PORTABLE AND CEILING


BULLETIN NO. 39

CENTURY ELECTRIC CO.

For More than 23 Years at
ST. LOUIS, MO.

CABLE ADDRESS "ONEPHASE" ST. LOUIS, U. S. A.

FOREWORD

N PRESENTING the complete line of Century Portable and Ceiling fans the outstanding points of superiority in design and construction have been illustrated and described so that the many advantages may be quickly appreciated. Century Portable and Ceiling fans are built in the following sizes and types:

PORTABLE . . . 9 inch, 12 inch and 16 inch
Oscillating 3 speed. Induction type A. C.
and series wound D. C.

PORTABLE . . . 9 inch Stationary, single
speed with switch in base. Induction type A. C.

CEILING . . . 58 inch sweep, 4 blade, 3 speed,
Induction type A. C. and series wound D. C.

VENTILATOR . . . 16 inch, 3 speed, In-
duction type A. C. and series wound D. C.

EACH DETAIL of design, each step in construction, and the material selected for each individual part is the outgrowth of experience accumulated over a period of more than twenty-three years in manufacturing electric fans.

Century
FANS

"They Keep a-Running"

~ ~ ~ ~ ~ *"They Keep a-Running"* ~ ~ ~ ~ ~



Fig. No. 513 * * Illustrating 9 and 12-inch Oscillating 3-speed Fans

FOR MORE THAN 23 YEARS

Century Electric Company has built fans possessing these three fundamental requirements:

- 1 *Quiet operation with large volume of air movement.*
- 2 *Keep a-Running ability.*
- 3 *Pleasing Appearance.*

The quiet movement of a large volume of air is made most effective because of the slow oscillating motion, readily demonstrated when once the fan is seen in operation.

The pleasing symmetrical appearance of the portable fans with velvety black

finish all over, with the exception of the blades which are made of brass, dipped and lacquered, harmonizes with the most tastefully decorated surrounding.

The illustrated descriptions following, make possible a quick appreciation of the rugged construction of CENTURY fans.

~ ~ ~ ~ ~ *Century* Fans ~ ~ ~ ~ ~

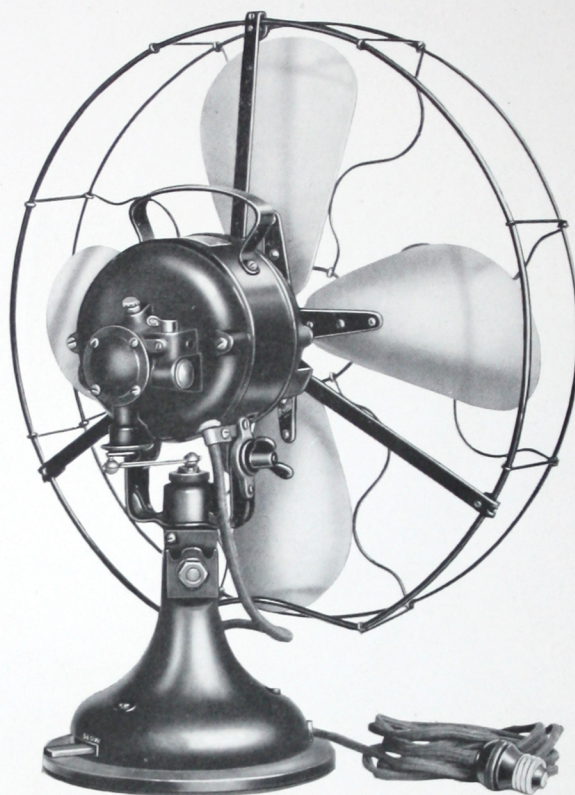
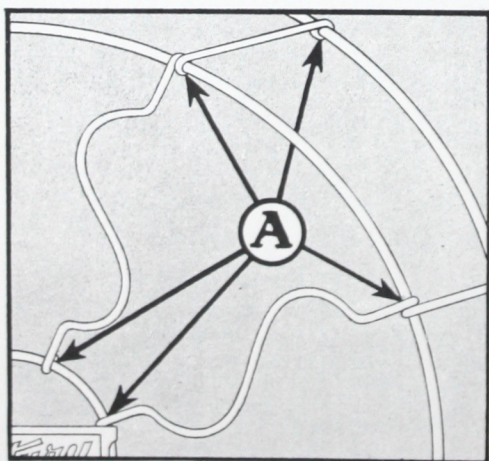


Fig. No. 514 * * Illustrating the 16-inch Oscillating 3-speed Fan



CENTURY FAN GUARDS

The fan blade guards are heavy steel wire, electrically welded at each joint and point of contact. Note that one support is provided at the top of the guard where one frequently grasps the fan to move it.

Additional strength is secured by wrapping the guard wires around the heavy cross section guard frame. Should the fan be lifted or handled by the guard, its shape will not be distorted.

~ ~ ~ ~ ~ "They Keep a-Running" ~ ~ ~ ~ ~

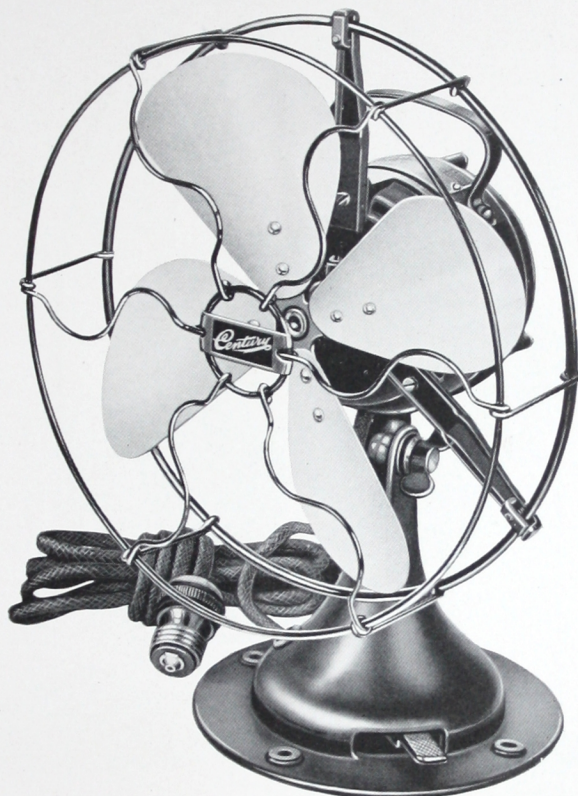
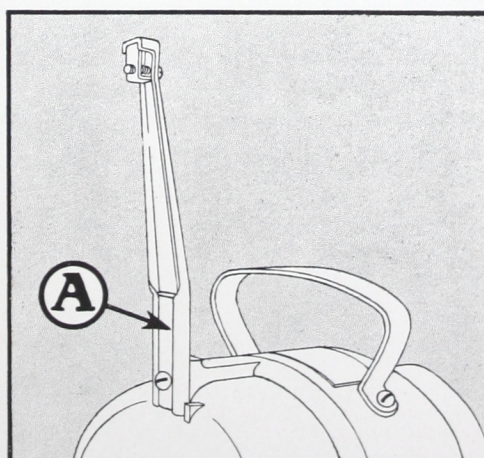


Fig. No. 566 * * Illustrating the A. C. 9-inch Single Speed Fans

CENTURY GUARD ARMS



Exceptional strength and rigidity are secured in Century fan guards through the use of heavy formed channel-section steel guard arms, reinforced with a steel plate at the base of the arm.



~ ~ ~ ~ ~ *Century* Fans ~ ~ ~ ~ ~

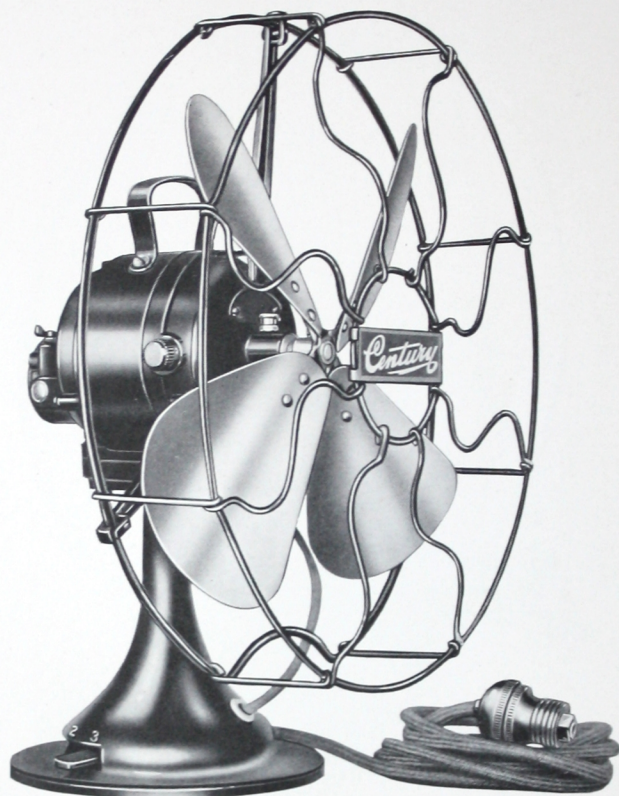
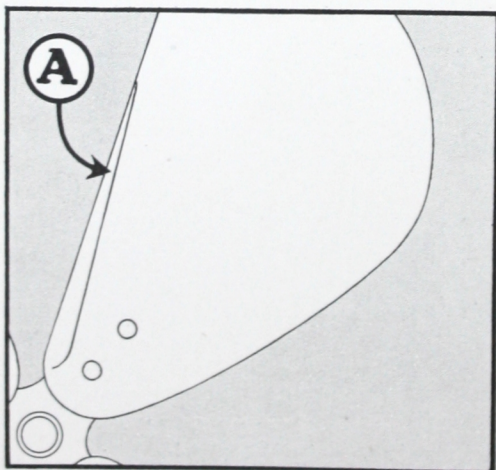


Fig. No. 516 * * Illustrating the 9 and 12-inch Direct Current Fans

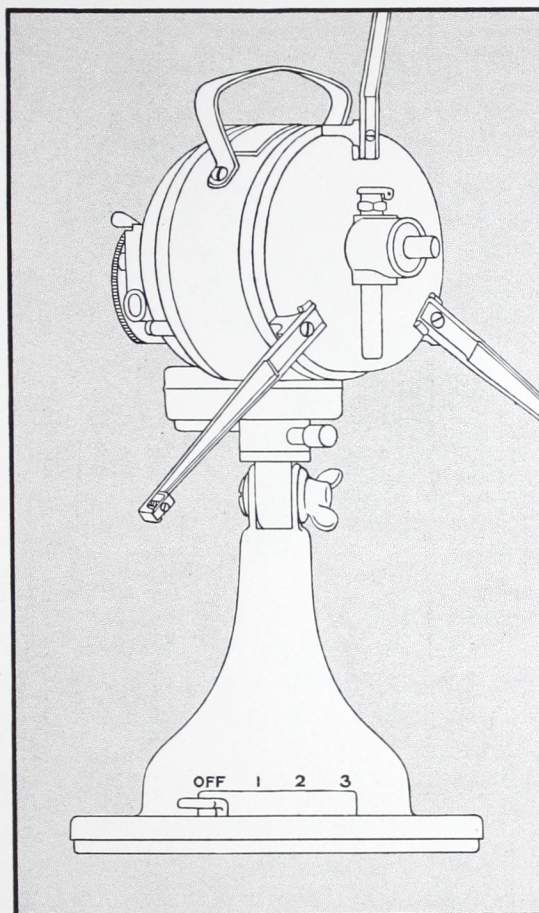


CENTURY FAN BLADES

The blades of Century Fans are made of brass, brass-riveted onto a formed brass spider, and then dipped and lacquered. They are exceptionally wide and deeply pitched to insure the quiet movement of a large volume of air.

A distinctive feature of Century fan blades is the sharp curve which is found on each blade. See "A" at the left. This extra curve increases the movement of air near the center of the blades, making practically the entire area of the blades effective.


~~~~~~*"They Keep a-Running"*~~~~~



## CENTURY MOTOR FRAME

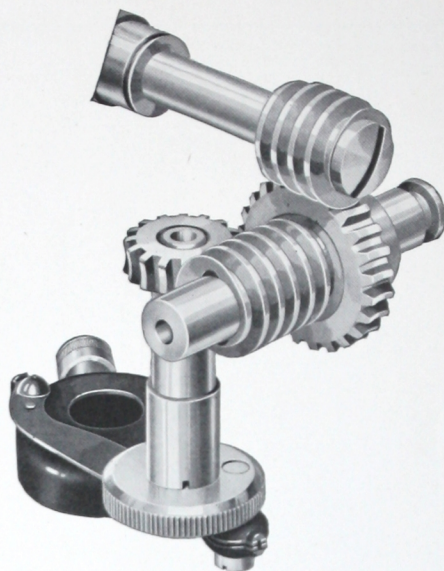
The fully enclosed motor frame, end brackets and oscillating mechanism, prevent dust, dirt, moisture and flying particles in the home, office or factory from entering and accumulating on the vital parts of the motor. This provides very positive protection to the fan motor and oscillating mechanism and contributes to unusually long life.

## CENTURY FAN STAND

Century fan stands are made of pressed steel drawn from one piece of metal. This makes an exceptionally strong, rigid and serviceable stand and possesses the added advantage of being light in weight.

~~~~~~*Century Fans*~~~~~


Fig. No. 515
Illustrating in approximately
normal size, the Oscillating
Mechanism, which is packed
in grease, of 9, 12 and 16-inch
Fans.



CENTURY OSCILLATING MECHANISM

The substantially dimensioned bronze worm wheels and machine cut steel worms completely inclosed in a grease cup, packed with a high grade graphite grease, insure satisfactory lubrication and consequently long life.

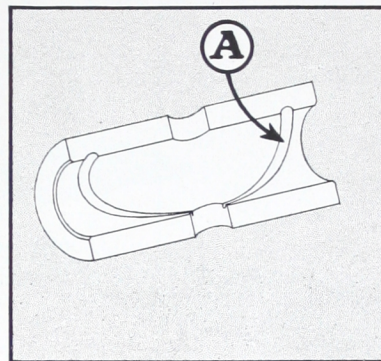
The slow oscillating speed makes possible the movement of a large volume of air, effectively distributed over a wide area.

An extraordinary feature of the oscillating mechanism of Century 16" fans, when supported in a bracket position and tilted downward (as in restaurants and other public places), is that the air is always moved at the same height from the floor throughout the complete arc of oscillation. This feature makes the air movement of the fan effective over a much larger area than is possible by the usual method of construction.

CENTURY FAN - MOTOR BEARINGS

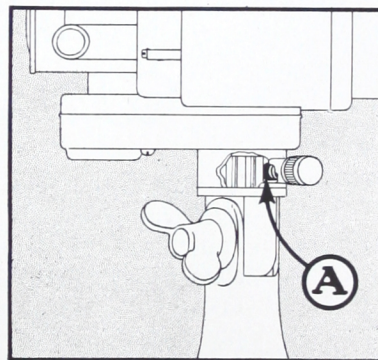
The bearings in Century fan motors are made of phosphor bronze (the highest grade bearing material obtainable) and are provided with positive lubrication over the entire bearing surface by means of a machine cut figure-8 oil groove.

Each bearing is supplied with a spring-cap oiler, placed directly above it, through which oil may be added when desirable. . . . The same care and precaution is taken in making Century fan motor bearings as is given to those of the large power motors.



CENTURY ESCAPEMENT DEVICE

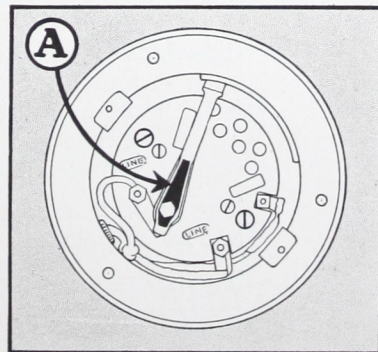
The Century escapement device provided in all oscillating fans, permits the adjustment of the direction of the breeze without lifting or moving the fan. It also prevents the fan from injuring the oscillating mechanism, stopping or tipping over, if it should oscillate into contact with a stationary object.



CENTURY FAN SWITCH

All Century portable fans have a switch in the base. The three speed regulating coil on the oscillating fans reduces the current consumption in approximately the same proportion as the reduction in speed.

The brass channel section switch arm is assured a positive non-arcing electrical contact on the brass contact points by a flat steel spring. See "A," at right.



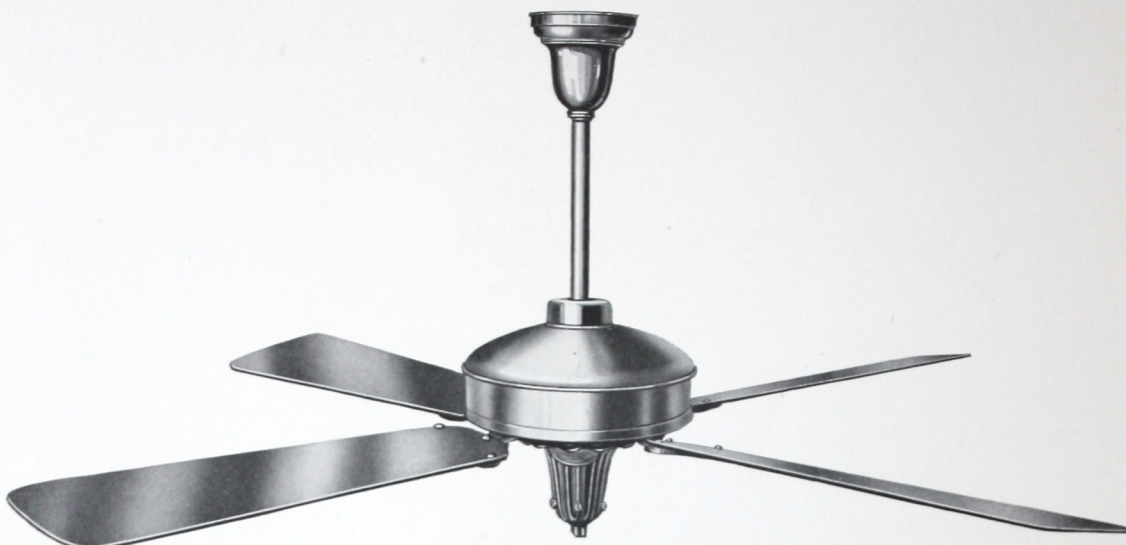


Fig. No. 518 • • Illustrating the 58-inch A. C. Ceiling Fan

Alternating and Direct Current CEILING FANS

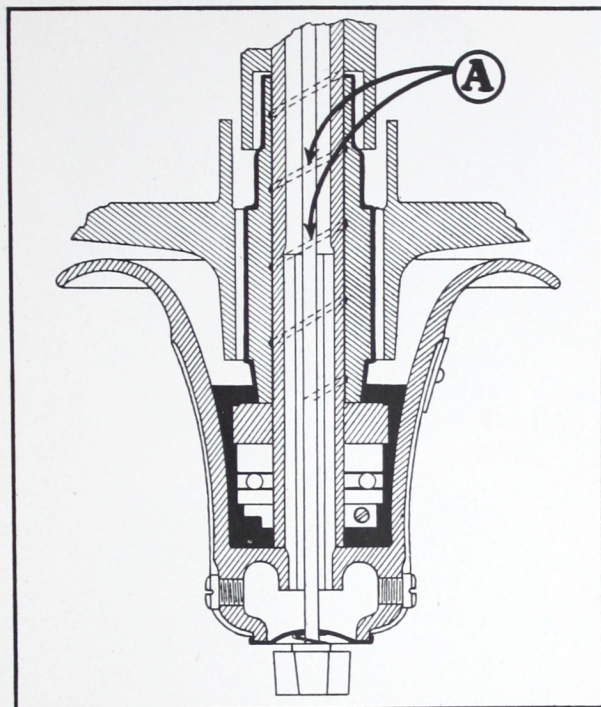
These ceiling fans are designed to meet the demand for a fan which moves an unusually large volume of air quietly when temperature and climatic conditions require, and also when required to operate slowly enough to provide only such circulation of air as will prevent discomfort and fatigue from oppressive atmosphere in crowded, poorly ventilated and overwarm rooms, or to cause a more even temperature throughout a room in cold weather.

On the high speed, fans will displace approximately 9,300 cubic feet of air per minute. The speed regulating coil provides for a maximum reduction of 50% to 65%. The low speeds secured enables these fans, particularly the alternating current fans, to be used with satisfaction in dining rooms, churches, theatres, etc., where generally heretofore the fans have moved too great a volume of air for comfort under certain temperature or atmospheric conditions.

The wood blades are made of a carefully selected kiln dried stock, and have a polished mahogany finish. The blade's sweep is 58 inches.

The fan motor and canopy are finished in black enamel. The top of the fan motor is a solid cover which protects it from any small falling matter.

"They Keep a-Running"



Alternating and Direct Current
CEILING FAN LUBRICATION

The rotating part of the Century ceiling fan is supported by ball bearings running between two highly polished hardened steel races, which are completely submerged in oil.

The special oil groove (see "A," above) cut in the inside of the armature casting, which forms the bearing surface for the armature shaft, extends the entire length of the armature casting.

When the armature is rotated, this spiral groove pumps oil to the top of the armature bearing, at which point it overflows and is returned by gravity to the oil cup through the drilled oil returns. Continuous, positive lubrication is assured.

The oil cup holds sufficient oil to insure positive lubrication for one year's continuous uninterrupted operation.

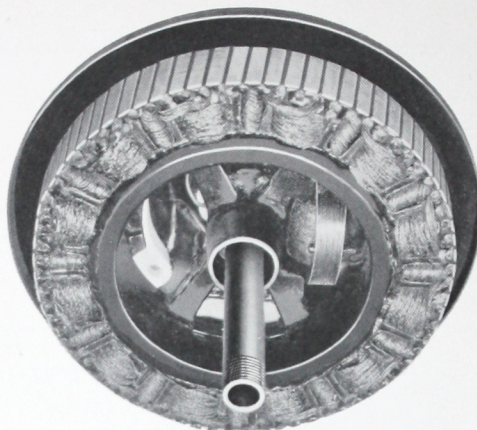


Fig. No. 562 * * * Illustrating the A. C. Ceiling Fan Field

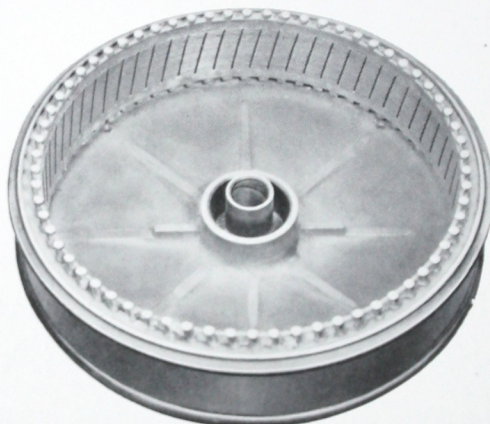


Fig. No. 563 * * * Illustrating the A. C. Ceiling Fan Armature

Alternating Current

CEILING FAN MOTOR

The motors used in all Century alternating current ceiling fans are of the induction type. No moving wire is employed in their construction. The field coils are placed in partially closed, well insulated slots and thoroughly impregnated with insulating paint. * * * The armature and field cores are built up of laminations punched from the best grade of thin sheet steel.

"They Keep a-Running"


~~~~~~*"They Keep a-Running"*~~~~~

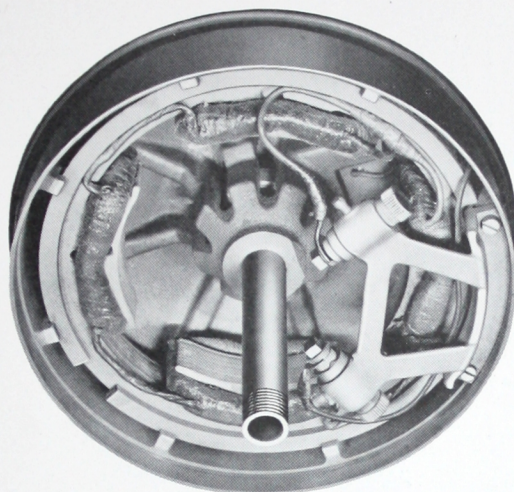


Fig. No. 564 • • Illustrating the D. C. Ceiling Fan Field

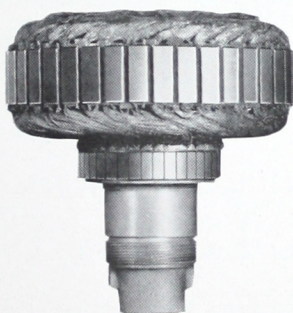


Fig. No. 565 • • Illustrating the D. C. Ceiling Fan Armature

*Direct Current*

## CEILING FAN MOTOR

The direct current ceiling fans have the same general appearance as the alternating current fans. The motor has four poles and is series wound. Both field and armature cores are built up of laminations punched from the same grade of thin sheet steel. Both armature and field coils are thoroughly impregnated with insulating paint.

The commutator of the direct current fan is of liberal size, built of rolled copper bars, insulated with the best quality of soft amber mica. The two large square carbon brushes are carried in cartridge type of brush holders. The carbon brush may be removed by unscrewing an insulated head metal screw.

~~~~~~*Century Fans*~~~~~




Fig. No. 519 * * Illustrating the 58-inch D. C. Ceiling Fan

Alternating and Direct Current
CEILING FANS

The ruggedness of a few moving parts is an assurance of practically life-time service.

All ceiling fans are regularly equipped with a three-speed switch, together with a speed regulating coil, which are located at the top of the fan where they cannot be easily damaged.

The speed regulating coil may be mounted in, and a three-speed snap switch mounted on, a short cylindrical japanned iron box suitable for wall mounting, if desired. Only two wires are necessary from the wall box to the fan.

The accessibility of either the AC or DC ceiling fans is such that should the occasion arise for dismantling for cleaning or inspecting, the armature may be removed and replaced in approximately five minutes.

"They Keep a-Running"

~ ~ ~ ~ ~ *"They Keep a-Running"* ~ ~ ~ ~ ~

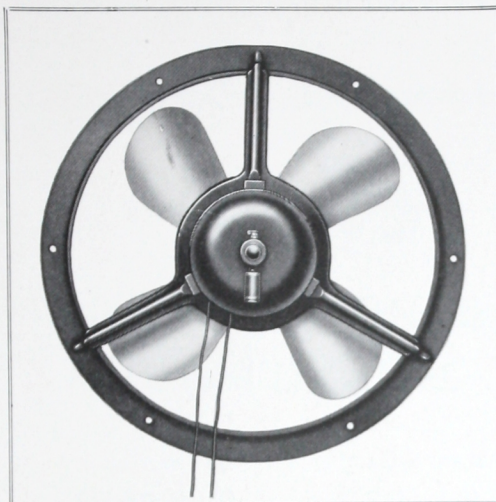


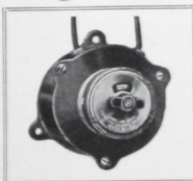
Fig. No. 522 * * Illustrating the 16-inch Ventilating Fan

CENTURY VENTILATING FANS

Alternating and Direct Current

Century ventilating fans, in both alternating and direct current types, are the standard fully-enclosed 16" portable fan motors and blades. The motor is supported by three ribbed cast iron arms which terminate in a cast iron supporting ring, 20 inches outside diameter, and drilled with mounting holes.

All Century Ventilating fans are supplied with a speed regulator. (See Fig. 523) The regulating coil is mounted



in a short cylindrical japanned iron box with a 3-speed snap switch mounted externally on regulating coil box.

Fig. No. 523 * * Illustrating Controller for Ventilating Fan

~ ~ ~ ~ ~ *Century Fans* ~ ~ ~ ~ ~



Century

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